

CLIMATOLOGICAL DATA FOR SEPTEMBER, 1911.

DISTRICT No. 9, COLORADO VALLEY.

FREDERICK H. BRANDENBURG, District Editor. P. McDONOUGH, Acting District Editor.

GENERAL SUMMARY.

September, 1911, was characterized by much cloudiness, frequent showers, and mild temperatures. Apart from Wyoming, where both the mean temperature and the precipitation were below the normal, the month was warm and wet over the greater portion of the Colorado Valley. Freezing or lower temperatures were noted in Wyoming on the 18th, and frosts were reported on several dates in localities in Utah, western Colorado, and the northern counties of Arizona, while in New Mexico the month was remarkably free from frost temperatures. The highest temperatures of the month occurred quite generally on the 1st, while the lowest were most common on the 7th or 21st.

The precipitation was generally well distributed. Moderately heavy rains fell over most of the district from the 25th to the close of the month. Considerable damage resulted to crops, lands, roads, and bridges in localities in Utah.

The sunshine was markedly deficient, and the relative humidity was somewhat in excess of the normal.

TEMPERATURE.

The mean of the 149 stations reporting was 67.2° , or 1.1° above the normal. The mean for 1910 was 68.8° . By subdivisions the means and departures were: Western Wyoming, 50.4° , -0.3° ; western Colorado, 56.9° , $+1.6^{\circ}$; eastern Utah, 63.1° , $+2.5^{\circ}$; western New Mexico, 67.4° , $+2^{\circ}$; Arizona, 75.3° , $+0.3^{\circ}$; and southeastern Nevada, 70.4° . The highest monthly mean was 91.7° , at Mohawk Summit, Ariz., and the lowest, 41.2° , at Corona, Colo. By subdivisions the extremes were: Western Wyoming, 88° at Green River and 14° at Daniel; western Colorado, 96° at Palisade and 15° at Fraser; eastern Utah, 101° at Hite and St. George and 13° at Scofield; western New Mexico, 100° at Deming and 32° at Dulce; Arizona, 117° at Gilabend and 30° at Flagstaff No. 2; and southeastern Nevada, 107° at Logan and 34° at Caliente. Except in western Wyoming injurious temperatures were not common, and cold periods were infrequent and of short duration. The month opened warm, and daily mean temperatures were generally above the normal until the 5th, when a change to cooler set in, this condition lasting until the 9th; the remaining days of the month, with a few exceptions, were generally warmer than the average.

PRECIPITATION.

The average for the 198 stations reporting was 2.25 inches, or 0.95 inch above the normal. That for September, 1910, was 0.92 inch. By watersheds the means and departures were: Green, 1.88 , $+0.87$; Grand, 2.08 ,

$+0.93$; San Juan, 3.38 , $+1.22$; Little Colorado, 2.52 , $+1.31$; Gila, 2.20 , $+0.94$; Mimbres, 2.40 , $+0.57$; and Colorado proper, 2.19 , $+0.96$ inch. The greatest monthly amount was 6.45 inches at a station near Silverton, Colo., while the least, 0.12 inch, occurred at Yuma, Ariz. By subdivisions the greatest and least monthly amounts were: Western Wyoming, 0.78 at Daniel and 0.39 at Green River; western Colorado, 6.45 at a station near Silverton and 0.61 at Dillon; eastern Utah, 6.14 at Ranch and 0.78 at Hanksville; western New Mexico, 3.30 at Gila Planting Station and 0.58 at Lordsburg; Arizona, 5.50 at Dos Cabezos and 0.12 at Yuma; and southeastern Nevada, 1.63 at Logan and 1.15 at Caliente. While over the district as a whole the occurrence of precipitation was somewhat irregular in point of time, yet there were some well-defined rainy periods. For the district the average number of days with 0.01 inch of precipitation was 8.

MISCELLANEOUS.

The sunshine was considerably below the average. Grand Junction reported 57, Durango 76, Flagstaff 65, Phoenix 79, and Yuma 89 per cent of the possible.

The relative humidity was slightly in excess of the normal. Grand Junction reported 47, Durango 68, Flagstaff 72, Phoenix 50, and Yuma 50 per cent.

Mr. L. N. Jesunofsky, section director, Phoenix, Ariz., reports as follows regarding a severe local storm which occurred on the 30th at Phoenix:

The winds blew brisk and high, southwest, west, and northwest, from 2.44 p. m. to 2.52 p. m., with a maximum velocity of 38 miles per hour at 2.45 p. m., and an extreme velocity of 56 miles at 2.49 p. m.

During the high winds many tents, trees, sheds, signs, awnings, roofs, telephone and electric-light wires, and brick walls were blown down, and several residences and warehouses were unroofed. Two persons were injured from the flying débris, but no lives were lost.

Three miles west and 4 miles east of Phoenix very little wind was experienced.

The storm was distinctly local and had none of the characteristics of a tornado.

CLOUDBURST AT COONEY, N. MEX.

On the night of the 14th a cloudburst in the Mogollon Mountains did considerable damage to the town or mining camp of Cooney, N. Mex. One life was lost, a number of houses washed away, and the mill and plant of the Enterprise Mining Co. badly damaged.

On the 30th, at Springdale, Utah, a flood in the Virgin River damaged crops and land to a considerable extent; 1.50 inches of rain fell in nine hours. At Sunnyside,

Utah, much damage resulted to the hay crop. At Tropic, Utah, the heavy rains at the close of the month did considerable damage to late crops, and put roads and bridges in an impassable condition.

NEW IRRIGATION PROJECT ON THE COLORADO.

By L. N. JESUNOFSKY, Section Director.

Within six months actual work of construction will be commenced on the Chuckawalla Dam, across the Colorado River, at a point in Pyramid Canyon, 40 miles north of Needles, Cal.

Mr. A. B. Koebig, of Los Angeles, the engineer in charge of the project, in company with several contractors, has visited the site of the dam, where surveyors are now at work.

Contracts will be let for borings in the bed of the river. This part of the cost will be about \$25,000, and the result will enable the engineers to approximate the cost of the construction of the dam.

The entire work will be under the supervision of A. B. Koebig & Son, engineers for the Chuckawalla Development Co., and engineers of the War Department.

The exact point where this initial dam will be built is known as the Bulls Head site, and the dam will be 140 feet high and 400 feet wide. It will be built of concrete, in the form of what is known as an arch dam, with a gravity section. This powerful bulkhead will hold in reserve 850,000 acre feet of surplus water and will flood Pyramid Canyon northward for a distance of about 65 miles.

This immense volume of water not only will be used to irrigate the Chuckawalla Valley and Palo Verde Mesa, 120 miles away to the south, but from it will be developed electric power to raise the irrigating waters 300 feet above the bed of the Colorado River and cause it to flow over 300,000 acres of now arid land.

The plans include an intake dam and settling reservoir 15 miles above Ehrenberg. From the settling reservoir to the first pumping station is a distance of 8 miles; to the second pumping station, 9 miles; and to the third, 10 miles; and in this distance the water is raised 300 feet to the tablelands to be irrigated. Other plans call for 50 miles of initial canals to distribute the water over the 300,000 acres.

Mr. Koebig estimates that it will consume five years' time to complete the work, which will progress in units of 600 water inches each. The first unit may be finished in two years.

The 300,000 acres of land which it is proposed to irrigate has all been filed upon by desert entrymen, so that by the time the project is completed all will have proved up on their claims and obtained patents from the Government.

According to Mr. R. M. Teague, a heavy citrus grower of San Dimas and president of the Chuckawalla Development Co., the dam will be larger than that built at Roosevelt, Ariz.

The company, which is capitalized at \$10,000,000, was granted permission by Congress, in February last, to construct the dam.

TABLE 1.—*Climatological data for September, 1911. District No. 9, Colorado Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.		Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.		Greatest in 24 hours.	Total snowfall, unmeasured.							
					Highest.	Date.																	
<i>Wyoming.</i>																							
Battle Mountain.	Carbon.	7,300	12	46.3	- 0.3	81	1	14	18	53	0.78	0.00	0.25	T.	4	12	18	0	nw.	Forest Ranger.			
Daniel.	Uinta.	6,740	12	52.0	- 0.5	83	1	17	18	54	0.63	0.21	0.10	12	11	7	w.	J. M. Van Dervort.					
Eden.	Sweetwater.	6,577	2	54.7	- 1.1	88	1	31	47	47	0.39	0.12	0	6	13	7	10	w.	Eden Valley L. & I. Co.				
Green River.	do.	6,083	6	48.6	+ 1.6	80	1†	15	18	57	0.72	0.24	0	8	10	11	6	nw.	George W. Maxom.				
Pinedale.	Fremont.	7,167	5	45.1	- 1.1	76	1†	16	7	47	1.45	0.50	0	6	7	5	9	nw.	U. S. Forest Service.				
Willow Creek Cabin.	do.	7,500	2	45.1	-														Do.				
<i>Colorado.</i>																							
Ashcroft.	Pitkin.	9,483	9	52.3	-	73	8†	25	21	46	2.37	0.47	0	21	1	12	13	14	sw.	Dan McArthur.			
Breckenridge.	Sunnuit.	9,536	22	46.2	- 0.5	71	11†	21	21	45	2.37	1.02	0	9	22	3	1	19	w.	Mrs. J. G. Thompson.			
Buford.	Rio Blanca.																		sw.	Mrs. H. Genier.			
Cascade.	San Juan.	8,900	4																sw.	San Juan W. & P. Co.			
Cedaredge.	Delta.	6,175	13	62.6	+ 2.2	86	11	41	7†	41	2.70	+ 1.34	1.25	0	11	12	14	4	sw.	Harry A. Cobbett.			
Chromo.	Archuleta.	7,500	5																sw.	Lawrence Nolan.			
Cochetopa.	Saguache.	9,088	2																w.	Miss Bessie McDonough.			
Colbran.	Mesa.	6,000	18	60.8	+ 1.2	84	1	38	18	37	2.41	+ 0.99	0.74	0	10	19	10	1	19	w.	A. A. Wood.		
Columbine.	Routt.	8,766	1																sw.	Mrs. M. A. Caron.			
Columbine Ranch.	Delta.	6,925	1																sw.	Geo. W. Wade.			
Corona.	Grand.	11,660	4	41.2	-	58	5†	23	21	28	2.20	0.48	0	8					w.	U. S. Weather Bureau.			
Cortez.	Montezuma.	6,100	4																w.	Wm. C. Syrett.			
Craig.	Moffat.																		sw.	Joseph F. Haubrich.			
Crawford (near).	Montrose.	6,600	1	59.6	-	81	5	40	21	35	2.14	0.57	0	15	17	6	7	sw.	C. W. Roe.				
Created Butte.	Gunnison.	8,867	1	48.7	-	75	2	20	6†	49	2.93	0.73	0	12	11	8	11	sw.	Charles L. Ross.				
De Beque.	Mesa.	4,935	1	64.6	-	88	11	34	20	50	1.10	0.50	0	5	26	2	2	sw.	O. L. Fairley.				
Delta.	Delta.	4,965	21	65.2	+ 2.4	92	2	33	21	53	2.48	+ 1.64	0.80	0	12	18	12	0	sw.	E. M. Getts.			
Dillon.	Summit.	8,800	1	47.1	-	79	1	25	23	46	0.61	0.14	0	6	7	12	11	n.	Harry T. Hamilton.				
Durango.	La Plata.	6,534	16	60.4	+ 2.2	84	11	35	21	42	2.82	+ 0.9	1.01	0	14	6	19	5	nw.	U. S. Weather Bureau.			
Eureka.	San Juan.	10,000	4																sw.	San Juan W. & P. Co.			
Fraser.	Grand.	8,560	2	45.3	-	73	12	15	21	51	1.82	0.45	0	10	6	7	7	w.	L. D. C. Gaskill.				
Fruita.	Mesa.	4,510	12	64.8	+ 1.2	91	11	34	21	51	2.31	+ 1.15	0.65	0	8	12	13	5	sw.	J. B. Willsea.			
Gladstone.	San Juan.	10,400	4																w.	San Juan W. & P. Co.			
Glenwood Springs (near).	Garfield.	5,823	13	57.6	+ 1.9	87	5	29	7	55	2.26	+ 1.28	0.80	0	11	23	0	7	w.	E. A. O'Neill.			
Grand Junction.	Mesa.	4,608	20	67.7	+ 1.3	80	11	47	18	53	1.30	+ 0.35	0.32	0	11	12	8	10	se.	U. S. Weather Bureau.			
Grandlake.	Grand.	S. 153	3													5	17	11	w.	Mrs. Belle Kauffman.			
Grand Valley.	Garfield.	5,089	19	63.4	+ 0.8	92	11	31	21	52	1.73	+ 0.36	0.56	0	12	10	13	7	sw.	David Evans.			
Gunnison.	Gunnison.	7,670	18	56.4	+ 4.4	79	2†	27	25†	47	0.96	+ 0.22	0.42	0	6	12	17	1	sw.	Clarence Adams.			
Horseshoe.	Montrose.	8,700	1																sw.	Lawrence J. Finch.			
Ironton.	Ouray.	10,000	1																w.	P. H. Foley.			
Ladore.	Moffat.																		sw.	Mrs. Geo. C. Bassett.			
Jake City.	Hinsdale.	8,686	6	54.0	-	75	1†	32	21	40	1.18	1.77	0.25	0	13	9	7	14	s.	J. F. Maurer.			
Lay.	Moffat.	6,190	17	57.0	- 0.5	84	11†	26	7	51	2.23	+ 0.70	1.00	0	8	11	6	13	sw.	A. G. Wallihan.			
Mancos.	Montezuma.	6,960	12	59.3	+ 1.7	83	11	36	21	53	3.32	+ 1.85	1.96	0	13	12	15	3	w.	B. M. Krupanitzky.			
Marble.	Gunnison.	7,951	2	54.5	-	78	11	31	20†	39	3.49	0.67	0	11	16	9	5	ne.	F. E. Morse.				
Marshall Pass.	Saguache.	10,846	8																w.	Wm. L. Williams.			
Meeker (near).	Kio Blanca.	6,182	19	56.2	+ 0.5	82	12	27	7†	47	1.74	- 0.06	0.95	0	6	12	9	4	sw.	T. Baker.			
Montrose.	Montrose.	5,811	22	63.4	+ 3.1	87	12	36	27	47	1.84	+ 0.85	0.66	0	13	12	8	10	sw.	U. S. Reclamation Service.			
Nast.	Pitkin.	7,953	1	50.2	-	75	11	36	21	43	2.32	0.63	0	8	18	7	5	w.	Arthur Hanthorne.				
Pagoda.	Routt.	6,500	20	58.6	+ 3.1	88	10†	23	7	53	3.07	+ 3.57	1.30	0	9	18	0	12	sw.	Mrs. J. W. Scott.			
Pagoda Springs.	Archuleta.	7,103	4	56.2	-	84	11	27	7†	51	2.65	0.63	0	12	12	12	6	sw.	E. T. Walker.				
Palisade.	Mesa.	4,729	4	69.1	-	96	2	48	21	58	1.36	0.54	0	10	19	3	8	sw.	G. S. Herbolzheimer.				
Paonia.	Delta.	5,694	16	61.6	- 0.7	81	10†	41	7†	36	2.72	+ 1.47	1.13	0	10	9	18	3	sw.	J. M. Underwood.			
Parshall.	Grand.																		w.	F. A. Field.			
Pitkin.	Gunnison.	9,500	2																w.	Mrs. Maggie Cammann.			
Pyramid.	Rio Blanca.	53.8	12																w.	E. E. Egry.			
Rangely.	do.	5,050	12																sw.	Mrs. C. P. Hill.			
Redcliff.	Eagle.	8,695	18																sw.	Dorothy Greiner.			
Rico.	Dolores.	8,824	9																sw.	Clinton B. Smith.			
Rifle.	Garfield.	5,437	62.8																w.	Herman Eiche.			
River Portal.	Montrose.	6,570	5	62.0	-	89	12	36	21	44	1.03	0.35	0	8	14	8	5	sw.	U. S. Reclamation Service.				
Sapinero (near).	Gunnison.	8,125	8	51.9	-	74	1	25	21	44	2.42	0.66	0	13	12	6	11	sw.	W. F. Irving.				
Silverstone (near).	Garfield.	6,110	1	62.4	-	87	12	41	21	58	2.61	0.87	0	14	12	5	13	sw.	Central Colorado Power Co.				
Silverton (near).	San Juan.	9,400	4	64.6	-	74	11	23	20†	54	6.45	1.05	0	18	7	16	1	sw.	H. J. Wills.				
Spruce Lodge.	Grand.																		w.	M. Elliot Houston.			
Steamboat Springs.	Routt.	6,683	8	52.7	-	82	11†	16	21	60	2.44	0.90	0	5	22	1	7	sw.	San Juan W. & P. Co.				
Tacoma.	La Plata.	7,300	4																sw.	John T. March.			
Telluride.	San Miguel.																		sw.	San Juan W. & P. Co.			
Terminal Dam.	La Plata.																		w.	A. F. Terrill.			
Terrill's Ranch.	Mesa.	8,300	4																w.	Martin Esser.			
Uncompahgre Plateau.	Montrose.	7,000	1																w.	Percy A. Hughes.			
Yampa (near).	Routt.	8,000	2																w.				
<i>Utah.</i>																			w.				
Aneth.	San Juan.	4,800	8																w.	H. R. Antes.			
Bluff.	do.	0	70.5	95	1†	43	8	45	1.86	0.71	0	11	6	2	22				sw.	Geo. D. James.			
Castle Dale.	Emery.	5,500	12	60.8	+ 2.6	88	15†	32	20	55	1.75	+ 0.93	1.70	0	2	14	16	0	sw.	James Jeffs.			
Cisco.	Grand.	4,447</																					

TABLE 1.—*Climatological data for September, 1911. District No. 9—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Number of clear days.	Number of partly cloudy days.	Number of rainy days.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of 0.01 inch or more.					
<i>Utah—Continued.</i>																				
Monticello.....	San Juan.....	7,545	2	61.4	77	1†	41	7	35	2.91	1.34	0	10	15	8	7	sw.	Geo. F. Barton.		
New Harmony.....	Washington.....	0	0							4.32	2.90	0	3	5	0	25	s.	Geo. F. Prince.		
Orderville.....	Kane.....	6,660	1							3.52	1.84	0	9						F. A. Porter.	
Pine Valley.....	Washington.....	0																Mason Gardner.		
Price.....	Carbon.....	5,557	0	61.5	88	1†	36	19	45	3.41	1.10	0	5	20	0	10	se.	R. H. Thompson.		
Ranch.....	Kane.....	6,700	9	54.8	84	1	27	6	47	6.14	2.57	0	6	14	13	3	w.	J. W. Seaman.		
San Rafael.....	Emery.....	4,200	0							1.30	1.00	0	3	22	2	5	ne.	W. C. Foy.		
St. George.....	Washington.....	2,880	21	71.9 + 0.8	101	1	35	8	52	1.75 + 1.26	1.01	0	3	12	11	7	s.	A. B. Ballantyne.		
Scofield.....	Carbon.....	7,625	1	51.2	80	1	13	7	52	2.01	0.80	0	8	23	2	5		Bernard Newren.		
Springdale.....	Washington.....	3,500	3	75.4	100	1†	53	22	42	4.32	1.57	0	3	17	3	10		Hattie Wood.		
Sunnyside.....	Carbon.....	5,280	6							3.23	0	10						Henry Cullum.		
Teasdale.....	Wayne.....	7,000	3	59.0	81	1†	39	7	32	1.74	1.03	0	6	11	1	18		Josiah Shurtz.		
Thompsons.....	Grand.....	5,150	0	67.4	91	1	43	7	37	2.26	0.99	0	5	18	7	5	sw.	A. M. Starmont.		
Tropic.....	Garfield.....	7,000	13	59.0 + 1.6	84	7†	32	6†	52	2.50 + 1.45	1.26	0	4	11	7 ^b	10 ^b	sw.	E. P. Bolton.		
Trot Creek Ranger.....	Uinta.....	9,200	1							1.70	0.50	0	10	10	14	6	sw.	U. S. Forest Service.		
Vernal.....	do.....	5,050	15	60.0 — 0.1	89	11	27	18	51	1.69 + 0.41	0.50	0	8	22	5	3		S. P. Trim.		
Woodside.....	Emery.....	4,645	0	66.8	94	1	31	21	51	3.07	1.30	0	3	21	2	7	s.	D. P. Adams.		
<i>New Mexico.</i>																				
Alma.....	Socorro.....	5,500	15	71.6 + 4.0	94	8	47	3	45	2.65 + 0.66	0.50	0	12	4	22	4	se.	Max A. Balke.		
Aragon.....	do.....	5,856	4	58.8d	82 ^d	23†	334	7	47 ^d	2.75	1.40	0	7	6	19	5		John R. Milligan.		
Aztec.....	San Juan.....	5,500	12							1.85 + 0.87	0.73	0	13	8	17	5	sw.	Dr. T. J. West.		
Black Rock.....	McKinley.....	6,500	3							1.13 + 0.29	0.28	0	9	5	22	3	sw.	R. J. Bauman.		
Bloomfield.....	San Juan.....	5,500	16	65.4 + 0.6	89	1†				1.31 — 0.06	0.66	0	7	7	23	6	se.	Fred Le Clerc.		
Cambray.....	Luna.....	4,215	12			85	3†			1.81	0.75	0	3	21	3	6		Agent So. Pac. Ry.		
Columbus.....	do.....	4,054	2			92	7†	58	23†		0.92	0	6	12	7	11	w.	Agent So. Pac. Ry.		
Deming.....	do.....	4,333	34	72.7	100	8†	48	23†	47	1.77 + 0.34	0.92	0	15	11	14	5	ne.	G. H. Blakeslee.		
Dulce.....	Rio Arriba.....	6,756	4	59.0 + 2.4	85	11	32	25	51	3.07 + 1.32	0.93	0	8	21	7	2		U. S. Genl. Hospital.		
Fort Bayard.....	Grant.....	6,152	36	67.4 + 0.9	85	24	50	20†	32	2.94 + 0.99	1.39	0	7	14	14	6	sw.	Cyril J. Collyer.		
Fruitland.....	San Juan.....	4,800	18	67.1 + 3.3	92	†	40	21	47	2.88 + 2.03	1.37	0	4	12	18	0	w.	Agent So. Pac. Ry.		
Gage.....	Luna.....	4,486	4	75.5	95	17†	55	1†	37	2.29 + 1.02	0.80	0	12	14	19	6	sw.	U. S. Forest Service.		
Gila Planting Station.....	Grant.....	6,475	1	67.0	84	24	50	20	30	3.30	1.05	0	12	11	18	1	nw.	Agent E. P. & S. W. R. R.		
Hachita.....	do.....	4,504	2							1.93	0.80	0	12	11	18	1	sw.	Dr. John R. Haynes.		
Haynes.....	Rio Arriba.....	6,600	1	69.2	94	8	41	29	32	1.80	1.12	0	4	26	4	0		Agent E. P. & S. W. R. R.		
Hermanes.....	Luna.....	4,451	2		92	16	60	18		1.05	0.50	0	3	10	13	7	w.	Agent So. Pac. Ry.		
Lordsburg.....	Grant.....	4,245	11	75.8 + 1.1	96	3†	56	20†	40	0.58 — 0.36	0.33	0	2	0	28	2		C. B. Martin.		
Luna.....	Socorro.....	7,300	11	59.5	79	8	38	1	39	2.86	1.04	0	6	15	15	0	w.	Charles Dennis.		
Mimbres.....	Grant.....	5,007	6							2.48	0.62	0	11	4	16	10		O. L. Scott.		
Pinos Altos (near).....	do.....	7,253								3.05	1.00	0	4	13	7	10	s.	Agent E. P. & S. W. R. R.		
Pratt.....	do.....	4,415	2							0.85	0.55	0	3	16	14	0		Robert H. Woods.		
Redrock.....	do.....	4,118	2															Agent E. P. & S. W. R. R.		
<i>Arizona.</i>																				
Allaires Ranch.....	Cochise.....	4,184	15							3.08 + 1.87	1.08	0	12	9	12	9		Thos. Allaire.		
Alpine.....	Apache.....	8,500								1.65 + 1.14	0.72	0	5	22	3	5	w.	U. S. Forest Service.		
Aztec.....	Yuma.....	492	13	88.1 + 0.6	112	1	60	7	43	0.48 + 0.19	0.30	0	3	22	3	5		Agent So. Pac. Co.		
Benson.....	Cochise.....	3,523	32	74.6 — 2.6	97	2†	53	30	41	1.70 + 0.78	0.70	0	6	20	7	3	e.	Do.		
Bisbee.....	do.....	5,500	22	69.6 — 0.8	85	1†	56	19	25	3.32 + 1.45	1.10	0	9	6	17	7	w.	Rev. J. G. Pritchard.		
Bowie.....	do.....	3,756	36	73.0 — 0.6	98	10	48	21	46	1.30 + 0.21	0.60	0	4	1	23	6	sw.	Agent So. Pac. Co.		
Buckeye.....	Maricopa.....	980								3.80	1.42	0	12	0	29	1		H. E. Kell.		
Canville.....	Santa Cruz.....	5,225	2							1.65 + 1.14	0.72	0	5	22	2	6	w.	R. A. Rodgers.		
Casagrande.....	Pinal.....	1,396	29	85.2 — 0.6	110	1	60	25	39	1.65 + 1.14	0.72	0	4	8	14	8	w.	Agent So. Pac. Co.		
Casagrande Ruins.....	do.....	1,422	3	84.2	107	1†	63	7	46	0.64	0.28	0	5	15	13			F. Pinkley.		
Cavecreek.....	Maricopa.....	1,520	3	79.6	103	1†	51	8	49	1.58	0.50	0	12	4	12	14	sw.	E. A. Howard.		
Chin Lee.....	Apache.....	6,090	3	66.6	92	2	44	10†	42	2.80	0.84	0	10	12	14	4		Fr. L. Ostermann, O. F. M.		
Chlarsom's Mill.....	Graham.....	8,000	6	61.6	75	6†	48	7†	26	3.62	1.00	0	10	12	14	4		H. R. Chlarsom.		
Clifton.....	Greenlee.....	3,584	20	81.2	98	2†	65	15†	28	1.98 — 0.56	0.43	0	11	19	10	1	sw.	P. Reisinger.		
Cline.....	Gila.....	2,300	12	77.5 + 1.6	97	1†	57	25	37	2.55 + 1.54	0.80	0	5	8	18	4	sw.	W. M. Clanton.		
Cochise.....	Cochise.....	4,219	13	74.0 — 0.9	95	2†	42	8	47	2.70 + 1.36	0.55	0	5	21	0	9		Agent So. Pac. Co.		
Columbia.....	Yavapai.....	1,900	11	84.1 — 2.8	104	22	66	30	34	1.72 + 1.20	0.55	0	6	11	16	3	se.	M. J. Nolan.		
Courtland.....	Cochise.....	4,543	2							2.22	0.90	0	11	7	23	0		Agent E. P. & S. W. Co.		
Dos Cabezos.....	do.....	5,250	3	68.7	89	9	50	3†	36	5.50	1.69	0	10	13	12	5	w.	N. Erickson.		
Douglas.....	do.....	3,930	8	76.6	98	9†	56	23	42	1.25	0.41	0	7	14	16	0	sw.	Dr. F. T. Wright.		
Dudleyville.....	Pinal.....	2,204	21	76.6 — 4.9	96	2	66	24	35	2.41 + 1.05	0.54	0	17	22	6	sw.	G. F. Cook.			
Fairbank.....	Cochise.....	3,862	1							2.30	0.52	0	9	10	16	4	sw.	Agent E. P. & S. W. Co.		
Flagstaff (1).....	Coconino.....	6,907	19	57.8 + 2.3	79	1	35	24	40	4.41 + 2.32	1.31	0	14	11	9	10		U. S. Weather Bureau.		
Flagstaff (2).....	do.....	7,452	3	55.4	76	1†	30	6†	44	3.05	0.64	0	11	8	8	14	sw.	C. C. Moers.		
Florence.....	Pinal.....	7,500	3							1.42	0.55	0	5	10	15	5	s.	U. S. Forest Service.		
Fort Apache.....	Navajo.....	1,504	11	82.4 + 1.5	110	1	57	30	40	0.63 — 0.15	0.22	0	5	10	15	5		Agent Ariz. Eastern R. R. Co.		
Fort Huachuca.....	Cochise.....	5,200	40	68.5 + 2.6	90	1†	49	6†	40	3.86 + 2.24	0.81	0	9	19	11	0	sw.	Post Surgeon, U. S. A.		
Globe.....	Maricopa.....	5,100	26	72.2 — 1.5	92	8†	52	26	34	1.55 + 0.32	0.92	0	8	24	0	6	ne.	Do.		
Globe.....	Gila.....	737	21	88.0 + 2.4	117	1	57	8	51	0.36 +										

TABLE 1.—*Climatological data for September, 1911. District No. 9—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.					
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>Arizona—Continued.</i>																					
Oracle.	Pinal.	4,500	2								4.59		1.09	0	10	8	17	5	w.	W. H. Winters.	
Osborn.	Cochise.	4,676	2									1.11	0	10	12	15	3		Agent E. P. & S. W. Co.		
Paradise.	do.	5,436	5	67.0	— 2.9	88	24	48	20	37	4.78	0.82	+ 0.46	0.40	0	3	25	0	sw.	J. C. Hancock.	
Parker.	Yuma.	345	14	80.6	— 2.9	113	1	50	57	55	1.74			0.77	0	4	12	0	sw.	M. A. Israel.	
Payson.	Gila.	5,550	3	67.1	— 2.9	89	24	42	25	42				0.53	0	6	14	3	e.	M. McDonald.	
Phoenix.	Maricopa.	1,108	30	83.2	+ 1.8	106	1	64	7	36	1.16	+ 0.15	1.48	0	5	13	11	6	sw.	U. S. Weather Bureau.	
Phoenix (1).	do.	1,092	21	83.4	+ 2.0	108	1	56	7	47	2.18	+ 1.56	1.03	0	5	18	4	8	sw.	G. Acuff.	
Phoenix (2).	do.	1,189	3	82.8	— 1.0	106	1	63	25	34	2.63			4.10	+ 2.18	2.27	0	19	s.	Horne & Armstrong.	
Pinal Ranch.	Pinal.	4,520	17									1.63		0.40	0	12	16	13	1	sw.	Iron & Craig.
Pinto.	Apache.	5,660	7									0.72		0.95	0	9	15	11	4	sw.	Mrs. C. F. Henning.
Prescott.	Yavapai.	5,320	44	65.1	+ 0.4	89	1†	42	7	38	2.02			0.45	0	2	18	10	2	w.	J. W. Flinn, M. D.
Quartzsite.	Yuma.	800	4	85.0	— 1.2	112	1	55	7	46	0.63			0.94	0	7	0	30	0	sw.	W. E. Scott.
Redrock.	Pinal.	1,864	4	85.6	— 1.0	106	3	66	24	36	2.00									sw.	W. J. Crowell.
Roosevelt.	Gila.	2,175	4	82.2	— 1.0															sw.	U. S. Reclamation Service.
Sacaton.	Pinal.	1,280	4	82.2	— 1.0	108	1	64	24	41	1.38			0.49	0	5	16	11	3	sw.	E. W. Hudson.
St. Johns.	Apache.	5,650	6	66.9	— 1.0	93	1†	44	24	44	4.71			1.00	0	7	4	16	10	sw.	A. Shreeve.
St. Michaels.	do.	6,950	24	63.1	+ 4.4	85	1	41	25	43	1.88	+ 0.32		0.38	0	8	7	16	7	sw.	Rev. A. Weber, O. F. M.
Salome.	Yuma.	1,875	4	79.4	— 1.0	107	1	50	7	48	0.65			0.36	0	4	4	19	7	sw.	Mrs. M. B. Swartz.
San Carlos.	Gila.	2,456	—																	sw.	F. S. Thomas.
San Simon.	Cochise.	3,609	—																	sw.	Agent Southern Pacific Co.
Seligman.	Yavapai.	5,219	—																	sw.	Lit. A. T. & S. F. R. R. Co.
Sentinel.	Maricopa.	685	13	87.7	— 1.5	111	1	64	6	39	1.17	+ 0.88		0.58	0	4	16	9	5	sw.	Agent Southern Pacific Co.
Silverbell.	Pima.	2,650	6	83.4	— 1.0	105	1	63	29	29	3.67			1.80	0	8	17	3	10	s.	Imperial Copper Co.
Snowflake.	Navajo.	5,644	5	66.2	— 1.0	88	2†	40	25	47	1.39			0.50	0	9	0	21	9	sw.	W. J. Flake.
Springerville.	Apache.	6,862	1	55.2	— 1.0	80	11	30	23	48	2.53			1.00	0	9	13	9	8	s.	U. S. Forest Service.
Supai.	Cocoonino.	3,200	6	77.7	— 1.0	104	1	58	61	36	2.76			1.31	0	9	15	11	4	sw.	A. H. Symons.
Tempe.	Maricopa.	1,165	7	82.6	— 1.0	104	2	58	7	42	1.74			0.98	0	5	11	14	5	sw.	F. H. Simmons.
Thatcher.	Graham.	2,800	9	78.1	— 1.0	100	2†	55	26	44	2.25			0.87	0	10	11	16	3	sw.	Prof. J. H. Larson.
Tombstone.	Cochise.	4,550	16	75.0	+ 2.1	100	9	59	19	37	4.18	+ 2.36		1.40	0	9	7	21	2	sw.	F. N. Walcott.
Truxton.	Mohave.	3,997	2	72.4	— 1.0	99	1	41	20	49	2.00			0.70	0	6	16	11	3	s.	G. A. Dennis.
Tuba.	Cocoonino.	4,500	11	68.5	— 1.4	94	1	48	8	36	1.98	+ 1.38		0.51	0	9	14	8	sw.	H. P. Marble.	
Tucson (1).	Pima.	2,390	32	81.2	+ 0.8	101	2†	62	24	39	2.65	+ 1.73		1.68	0	7	13	13	4	sw.	University of Arizona.
Tucson (2).	do.	2,380	3	79.6	— 1.0	102	1†	60	61	42	2.90			1.30	0	6	13	16	1	w.	J. M. Role.
Vail.	do.	2,526	1	80.6	— 1.0	101	1	62	24	38	2.07			1.46	0	7	11	12	12	w.	U. S. Coast and Geod. Surv.
Walnut Grove.	Yavapai.	3,421	13	76.2	+ 4.2	102	1	52	27	41	1.49	+ 0.85		0.82	0	7	14	13	3	sw.	Agent Southern Pacific Co.
Wickenburg.	do.	3,649	19								1.85	+ 1.11		0.75	0	4	16	11	3	sw.	J. O. Carter.
Willcox.	Maricopa.	2,072	13	80.0	+ 4.1	102	25	53	30	42	1.45	+ 0.83		1.05	0	5	17	9	4	sw.	Agent S. F. P. & P. Ry.
Williams.	Cochise.	4,164	30	69.2	— 3.6	96	2	46	21†	48	1.95	+ 0.97		1.12	0	4	12	11	7	s.	Agent Southern Pacific Co.
Winslow.	Cocoonino.	6,750	12	59.6	— 0.8	85	2	34	29	42	3.38	+ 1.50		0.90	0	7	11	15	4	sw.	E. J. Nordyke.
Yuma.	Navajo.	4,853	8	69.0	— 1.0	95	3	43	30	43	2.41			0.38	0	8	15	5	10	sw.	J. F. Bauer.
Yuma (1).	Yuma.	141	32	85.0	+ 0.8	109	1	56	7	45	0.23	+ 0.07		0.20	0	2	26	3	1	w.	U. S. Weather Bureau.
	do.	150	4	80.8	— 1.0	106	1	47	7	53	0.12			0.07	0	3	20	0	10	sw.	A. L. Crane.
Caliente.	Lincoln.	4,407	1	64.2	—	96	1	34	7†	54	1.15			1.07	0	4	21	1	8	ne.	Salt Lake Route.
Logan.	Clark.	1,700	4	76.6	—	107	1	49	7†	48	1.63			1.42	0	3	13	8	9	s.	R. M. Filcher.

^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for September, 1911. District No. 9, Colorado Valley.*

TABLE 2.—*Daily precipitation for September, 1911. District No. 9—Continued.*

Stations.	Watershed.	Day of month.																														Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
<i>Utah—Continued.</i>																																	
Price.....	Green.....																																3.41
Ranch.....	Colorado.....																																6.14
San Rafael.....	Green.....																															1.30	
St. George.....	Colorado.....																															1.75	
Scofield.....	Green.....																															2.01	
Springdale.....	Colorado.....																															4.32	
Sunnyside.....	Green.....																															3.23	
Teasdale.....	Colorado.....																															1.74	
Thompson's.....	Green.....																															2.26	
Tropic.....	Colorado.....																															2.50	
Troutcreek Ranger.....	Green.....																															1.70	
Vernal.....	do.....																															1.69	
Woodside.....	do.....																															3.07	
<i>New Mexico.</i>																																	
Alma.....	Gila.....	.11																														2.65	
Aragon.....	do.....																															2.75	
Aztec.....	San Juan.....	.03	T.	.05	.08																											1.85	
Blackrock.....	Little Colorado.....																																
Bloomfield.....	San Juan.....	T.	T.	.03	T.																											1.13	
Cambray.....	Mimbres.....																															1.31	
Columbus.....	Gila.....																															1.81	
Deming.....	Mimbres.....																															1.77	
Dulce.....	San Juan.....	T.	.04	.02	.40																										3.07		
Fort Bayard.....	Mimbres.....																															2.94	
Fruitland.....	San Juan.....	T.	.20	.07																												2.88	
Gage.....	Mimbres.....																															2.20	
Gila Planting Station.....	Gila.....																															3.30	
Hachita.....	Gila.....																															1.92	
Haynes.....	San Juan.....																															1.80	
Hermanes.....	Gila.....																															1.05	
Lordsburg.....	do.....																															0.58	
Luna.....	do.....																															2.11	
Minibres.....	Mimbres.....																															2.86	
Pinos Altos (near).....	Gila.....																															1.38	
Pratt.....	do.....																															3.05	
Redrock.....	do.....																															0.85	
Rodeo.....	do.....																																
<i>Arizona.</i>																																	
Allaires Ranch.....	Sonora.....	1.08																														3.08	
Alpine.....	Gila.....																																
Aztec.....	do.....																															0.48	
Benson.....	San Pedro.....																															1.70	
Bisbee.....	do.....																															3.32	
Bowie.....	Gila.....																															1.39	
Buckeye.....	do.....																																
Canille.....	San Pedro.....	T.																															
Casagrande.....	Gila.....																															1.05	
Casa grande Ruins.....	do.....																																
Cavecreek.....	Verde.....																															1.58	
Chin Lee.....	San Juan.....	T.	.46																													2.80	
Chiarsons Mill.....	Gila.....																															1.08	
Clifton.....	do.....																																
Cline.....	Gila.....																																
Cochise.....	Desert.....																															2.70	
Columbia.....	Aqua Fria.....																															1.72	
Courtland.....	White.....																																
Dos Cabezos.....	Desert.....																															5.50	
Douglas.....	do.....																																
Dudleyville.....	Sonora.....	T.	.40	.14	.20																										1.41		
Fairbank.....	Gila.....																															2.70	
Flagstaff (1).....	Little Colorado.....	.07	.18	.06																												4.41	
Flagstaff (2).....	do.....																																
Florence.....	Gila.....																															3.86	
Fort Apache.....	Salt.....	.60																														1.58	
Fort Huachuca.....	San Pedro.....																																

TABLE 2.—*Daily precipitation for September, 1911. District No. 9—Continued.*

Stations.	Watershed.	Day of month.																																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30														
<i>Arizona—Continued.</i>																																													
Prescott.	Hassayampa.	T.						.04		.02	.09	.11	.15	.72																	T.	.22	.10	.03	.56	2.02									
Quartzsite.	Colorado.																																						0.03						
Redrock.	Santa Cruz.	T.																																										2.00	
Roosevelt.	Salt.																																												
Sacaton.	Gila.																																												
St. Johns.	Little Colorado.																																												
St. Michaels.	T.																																												
Salome.	Colorado.																																												
San Carlos.	Gila.																																												
San Simon.	do.																																												
Seligman.	Verde.																																												
Sentinel.	Gila.																																												
Silverbell.	Santa Cruz.	.05																																											
Snowflake.	Little Colorado.	.02						.05																																					
Springerville.	do.	.06						.14																																					
Supai.	Colorado.																																												
Tempe.	T.																																												
Thatcher.	Gila.																																												
Tomostone.	San Pedro.																																												
Truxton.	Colorado.	.01																																											
Tuba.	Little Colorado.																																												
Tucson.	Santa Cruz.																																												
Tucson (1).	do.																																												
Tucson (2).	do.																																												
Vail.	do.																																												
Walnut Grove.	Hassayampa.																																												
Wickenburg.	do.																																												
Willcox.	Desert.																																												
Williams.	Colorado.																																												
Winslow.	Little Colorado.	T.																																											
Yuma.	Colorado.																																												
Yuma (1).	do.																																												
<i>Nevada.</i>																																													
Caliente.	Colorado.																																												
Logan.	do.																																												

• Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

‡ Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for September, 1911. District No. 9, Colorado Valley.

Date.	Wyoming.				Colorado.								Utah.								New Mexico.							
	Daniel.		Green River.		Durango.		Grand Junction.		Gunnison.		Meeker.		Steamboat Springs.		Emery.		Fort Duchesne.		Hite.		Moab.		St. George.		Bloomfield.		Fort Bayard.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	81	28	88	55	81	53	86	63	74	38	75	44	76	39	80	50	90	48	101	60	99	54	101	51	89	.....	81	54
2....	78	34	80	46	78	51	84	59	79	36	78	46	76	36	82	53	90	44	99	68	96	53	100	55	85	.....	83	52
3....	73	33	71	44	70	51	81	67	39	66	46	66	32	81	50	79	59	95	70	91	53	97	70	75	.....	82	51	
4....	70	31	73	40	76	50	87	63	69	40	76	44	78	38	83	55	89	43	94	72	92	61	93	49	81	.....	82	54
5....	60	39	71	33	78	45	86	60	70	39	78	46	76	35	80	50	85	46	92	72	93	69	88	68	84	.....	81	55
6....	50	25	60	28	73	42	79	49	73	43	68	34	68	32	82	46	81	30	92	57	86	46	88	42	81	.....	81	54
7....	60	20	78	26	75	37	82	50	71	45	69	27	70	20	79	40	78	35	89	52	89	40	90	39	82	.....	82	52
8....	67	20	79	25	78	39	83	51	74	48	70	30	78	21	81	46	85	32	92	53	91	40	92	38	84	.....	84	57
9....	78	25	83	33	78	54	80	53	70	49	78	32	77	22	80	49	87	33	92	65	94	52	91	59	86	.....	81	57
10....	76	30	85	40	79	47	87	62	68	51	78	40	81	32	82	51	90	36	95	60	95	57	93	61	79	.....	79	55
11....	67	29	83	41	84	46	89	59	73	50	80	42	82	34	81	52	91	43	96	62	97	54	97	62	89	.....	83	56
12....	65	30	70	35	79	53	88	62	72	49	82	42	82	33	82	53	88	58	90	74	97	65	84	66	89	.....	82	53
13....	69	35	67	33	75	54	77	61	70	47	74	54	72	47	80	52	84	51	90	69	85	61	90	61	81	.....	81	58
14....	66	20	69	31	65	54	65	56	71	47	74	46	71	44	81	50	77	50	82	59	85	59	87	65	71	.....	83	56
15....	68	22	72	28	75	48	78	51	70	47	74	35	74	32	78	51	84	40	84	57	84	49	90	51	74	.....	85	53
16....	69	23	78	34	77	42	82	54	71	47	75	40	76	30	78	50	85	43	90	57	88	50	92	47	84	.....	83	55
17....	67	23	82	40	75	46	80	55	71	48	66	44	63	43	79	46	80	40	91	57	86	50	90	48	79	.....	82	58
18....	65	14	80	39	76	45	76	47	72	46	65	27	66	25	78	45	71	28	89	60	84	43	87	45	81	.....	78	57
19....	63	16	80	40	66	47	82	51	70	49	75	28	72	21	79	44	80	29	89	56	89	46	91	42	76	.....	76	55
20....	68	17	78	38	73	41	76	50	68	50	68	30	67	30	79	43	82	30	87	58	84	48	91	39	73	.....	79	50
21....	68	16	83	36	75	35	81	48	69	50	78	42	76	16	78	48	83	29	92	51	89	39	92	45	80	.....	80	52
22....	53	40	75	31	69	44	77	61	70	32	74	41	75	35	72	57	81	44	87	64	89	59	90	54	81	.....	81	50
23....	64	22	70	32	75	44	82	66	67	35	72	41	69	40	76	48	71	46	89	66	87	55	90	56	83	.....	83	52
24....	63	28	68	24	75	38	81	52	70	28	72	72	38	30	79	46	72	47	92	62	85	51	92	46	78	.....	85	53
25....	65	32	74	31	80	39	83	58	74	27	77	36	72	31	78	41	82	41	93	54	91	53	93	46	86	.....	82	55
26....	64	34	75	34	72	51	77	58	73	27	71	45	67	45	80	46	80	50	89	56	88	60	79	56	78	.....	78	54
27....	65	32	70	34	67	49	70	56	79	35	60	39	58	32	81	45	78	50	84	60	81	54	88	66	71	.....	79	56
28....	63	22	71	31	71	52	70	54	75	37	68	40	66	40	82	45	76	51	83	60	80	54	88	60	77	.....	77	56
29....	61	18	60	33	65	52	74	56	71	36	68	48	66	47	85	48	73	43	77	62	74	58	71	60	70	.....	74	54
30....	63	40	58	35	62	50	56	56	70	30	61	50	59	46	81	43	71	52	75	60	75	59	70	61	71	.....	73	55
Mns.	66.0	26.6	74.4	35.0	74.1	46.6	79.7	55.7	71.4	41.5	72.3	40.0	71.6	33.8	79.9	48.2	81.4	42.4	89.7	61.4	87.6	52.9	90.1	53.7	80.1	.....	80.6	54.3

Date.	Arizona.																				Logan, Nev.					
	Bisbee.		Flagstaff.		Fort Apache.		Grand Canyon.		Parker.		Phoenix.		Prescott.		St. Michaels.		San Carlos.		Tucson.		Yuma.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	85	60	79	50	90	52	74	50	113	70	106	76	89	56	85	50	.....	100	69	109	76	107	64	.....	.....	.....
2....	83	60	78	43	90	50	73	48	110	65	104	72	89	54	83	53	.....	101	66	107	73	105	60	.....	.....	.....
3....	83	61	74	45	89	52	70	45	103	69	102	75	82	54	81	51	.....	99	70	105	66	100	56	.....	.....	.....
4....	79	61	71	49	88	50	68	43	103	70	99	74	79	52	83	47	.....	94	76	103	79	97	57	.....	.....	.....
5....	80	63	69	52	82	55	69	39	101	50	96	72	76	58	79	49	.....	93	73	100	70	97	58	.....	.....	.....
6....	80	59	70	43	85	49	68	37	100	50	95	69	77	43	82	43	.....	93	67	100	68	94	50	.....	.....	.....
7....	80	61	72	37	86	52	67	34	101	50	96	64	80	42	79	47	.....	96	66	101	56	96	49	.....	.....	.....
8....	79	61	67	36	89	50	66	35	101	50	95	69	68	45	74	42	.....	96	66	102	71	97	52	.....	.....	.....
9....	82	61	74	41	88	56	67	37	103	60	99	68	83	44	81	51	.....	100	68	104	58	98	52	.....	.....	.....
10....	80	60	76	46	86	54	73	43	104	62	99	77	84	54	82	53	.....	97	74	104	67	100	58	.....	.....	.....
11....	83	61	79	45	83	58	75	47	105	60	100	71	84	55	80	50	.....	101	70	105	73	102	58	.....	.....	.....
12....	78	61	63	49	80	56	75	54	100	65																